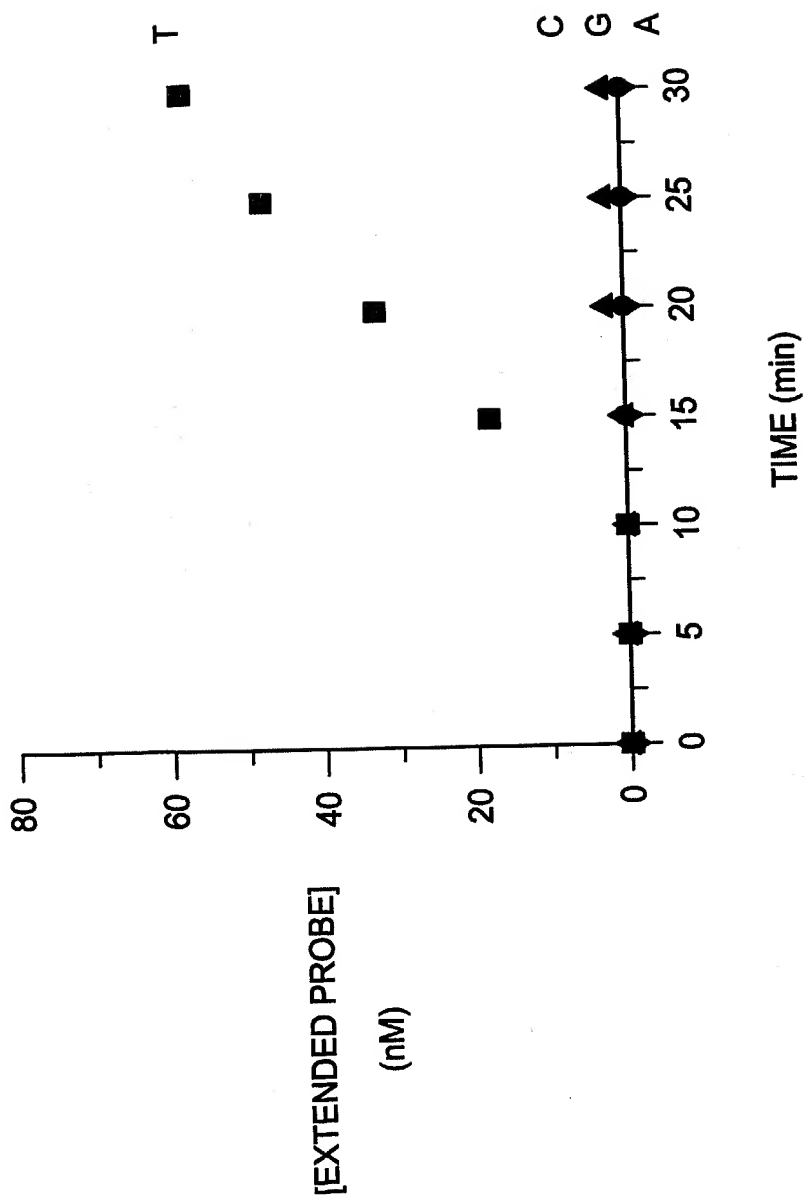


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FIG-1A -3A/3'A DETECTOR PROBE



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FIG-1B -3A/3'C DETECTOR PROBE

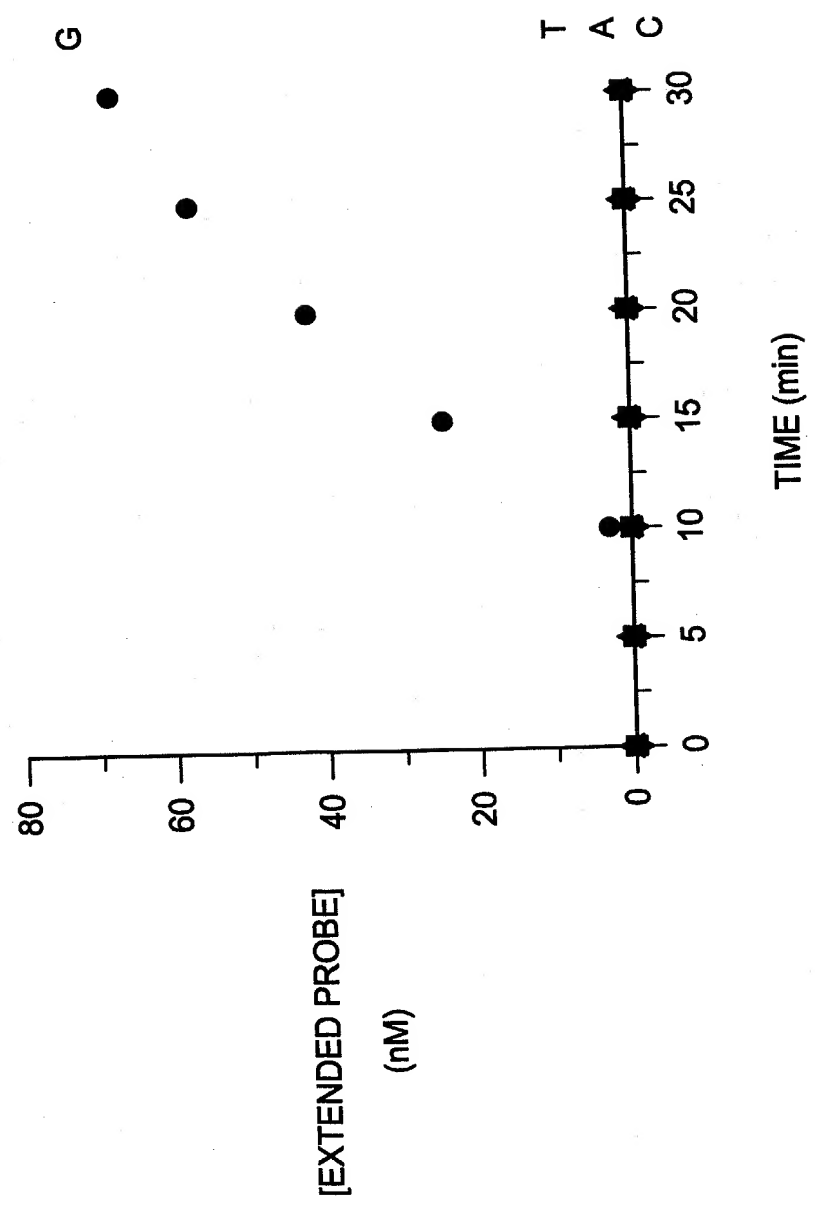


FIG-1C -3A/3'G DETECTOR PROBE

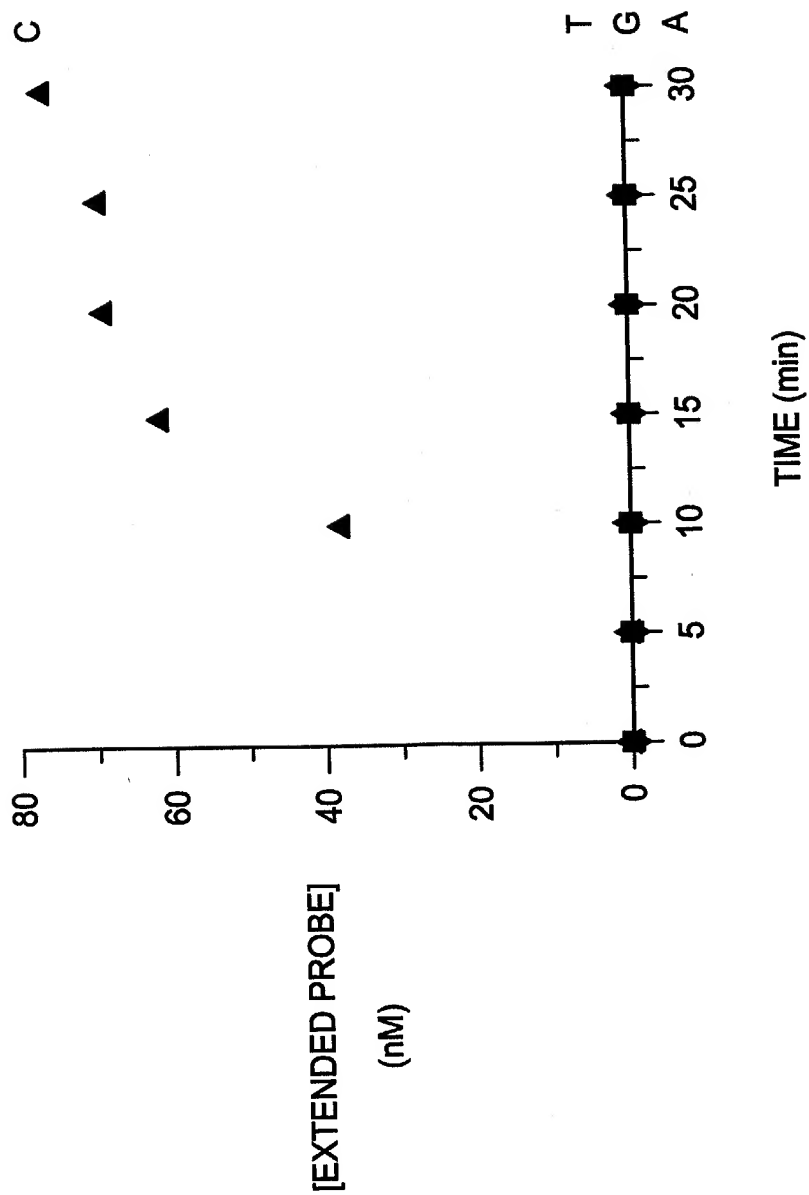


FIG-1D -3A/3'T DETECTOR PROBE

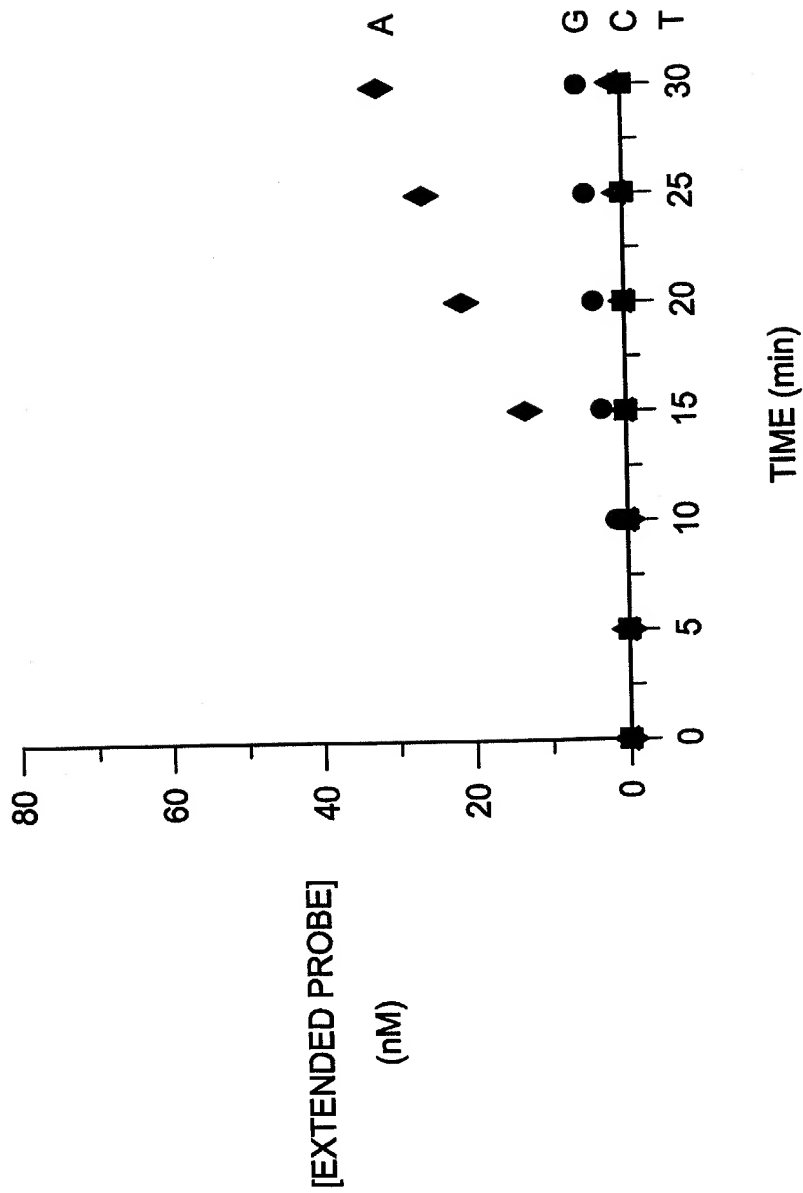
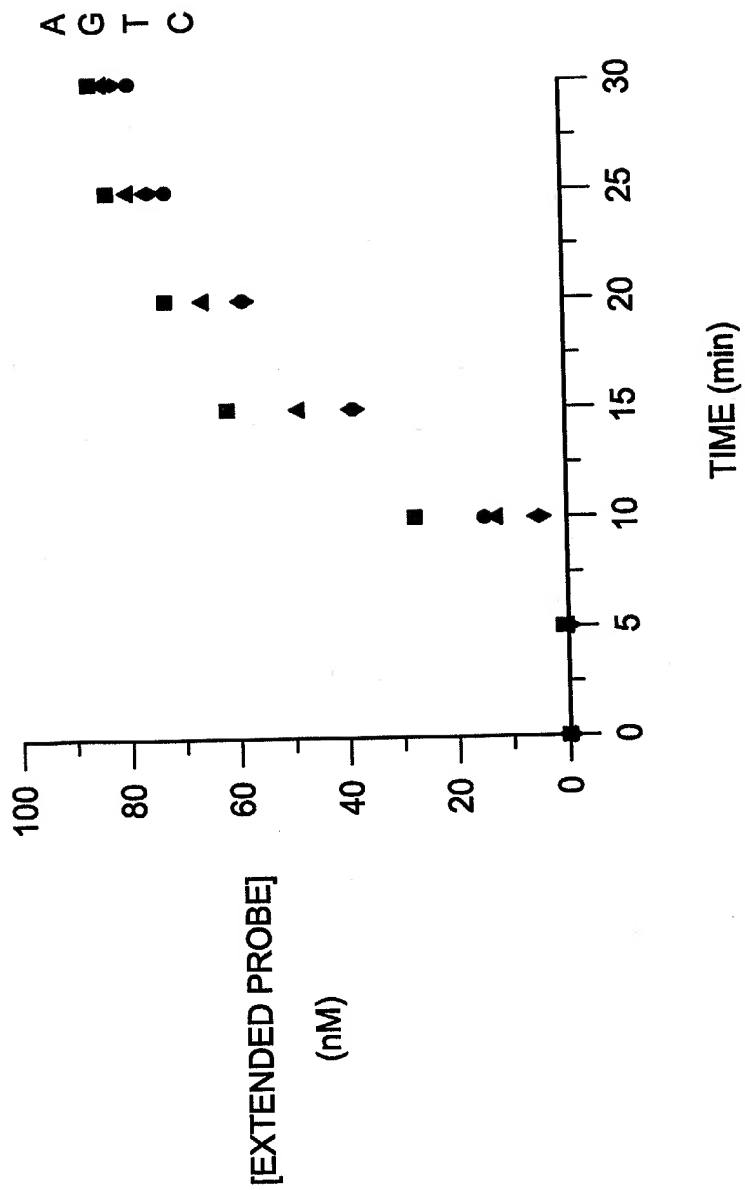


FIG-1E S1.1/2.2 SDA WITH 10,000 A, C, G, OR T TARGETS



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FIG-2A -1A DETECTOR PROBE

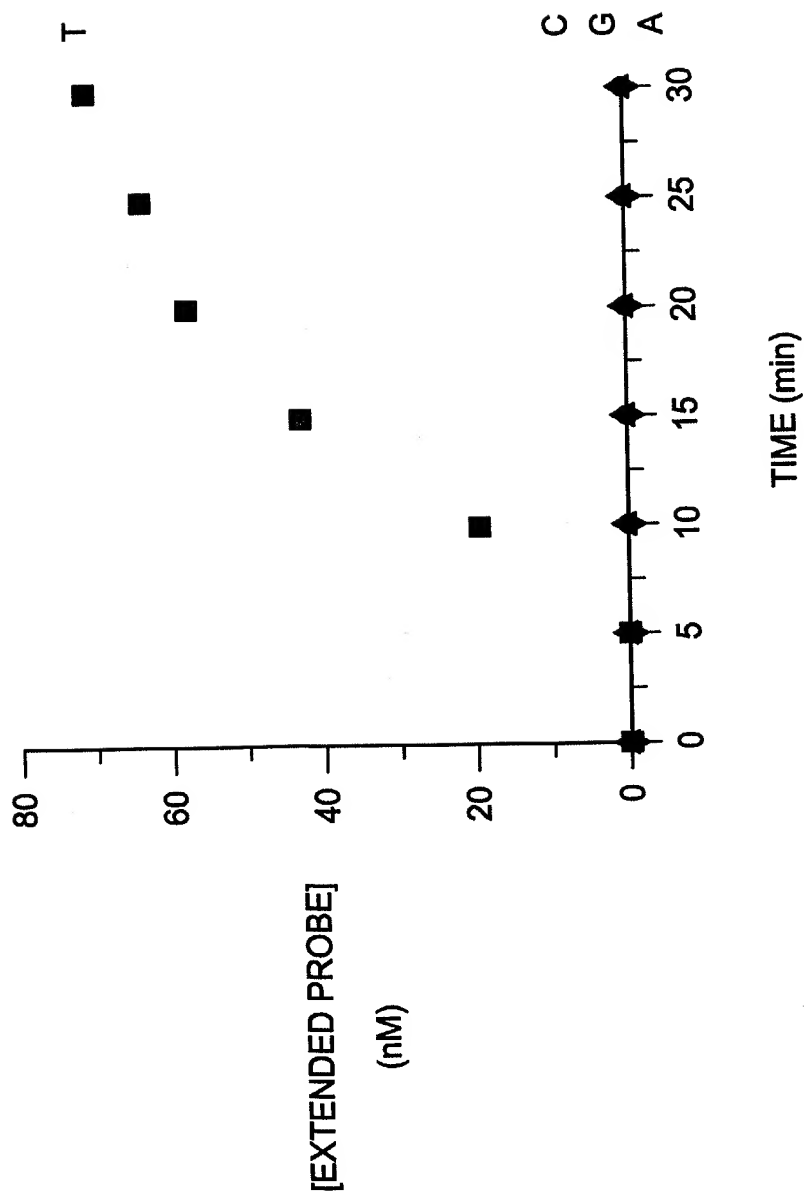
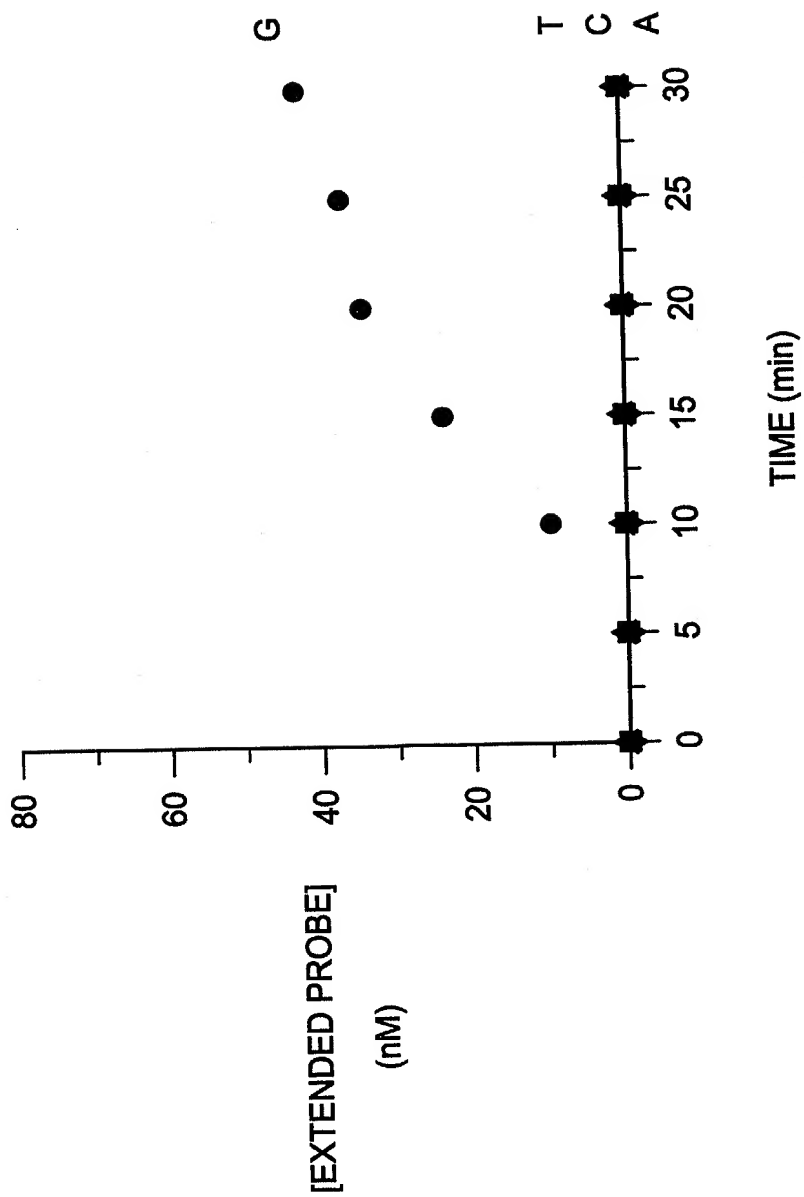


FIG-2B -1C DETECTOR PROBE



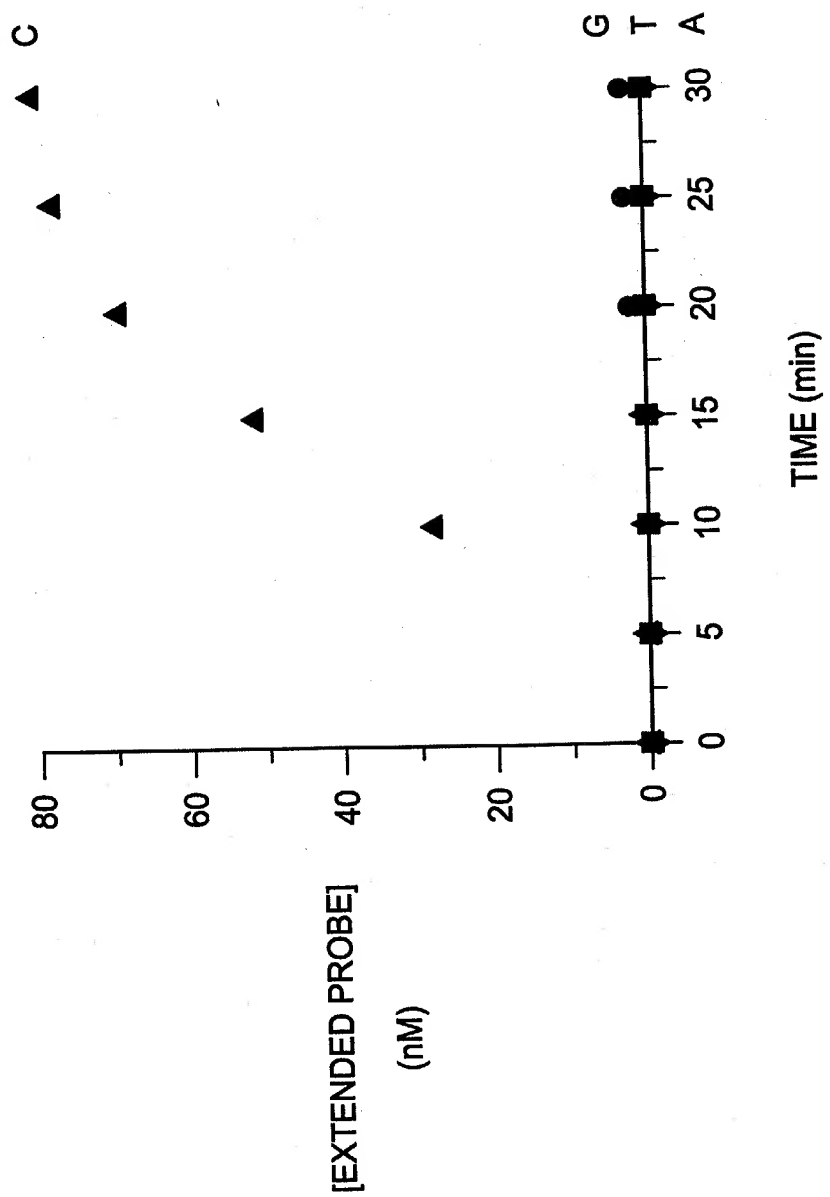


FIG-2D -1T DETECTOR PROBE

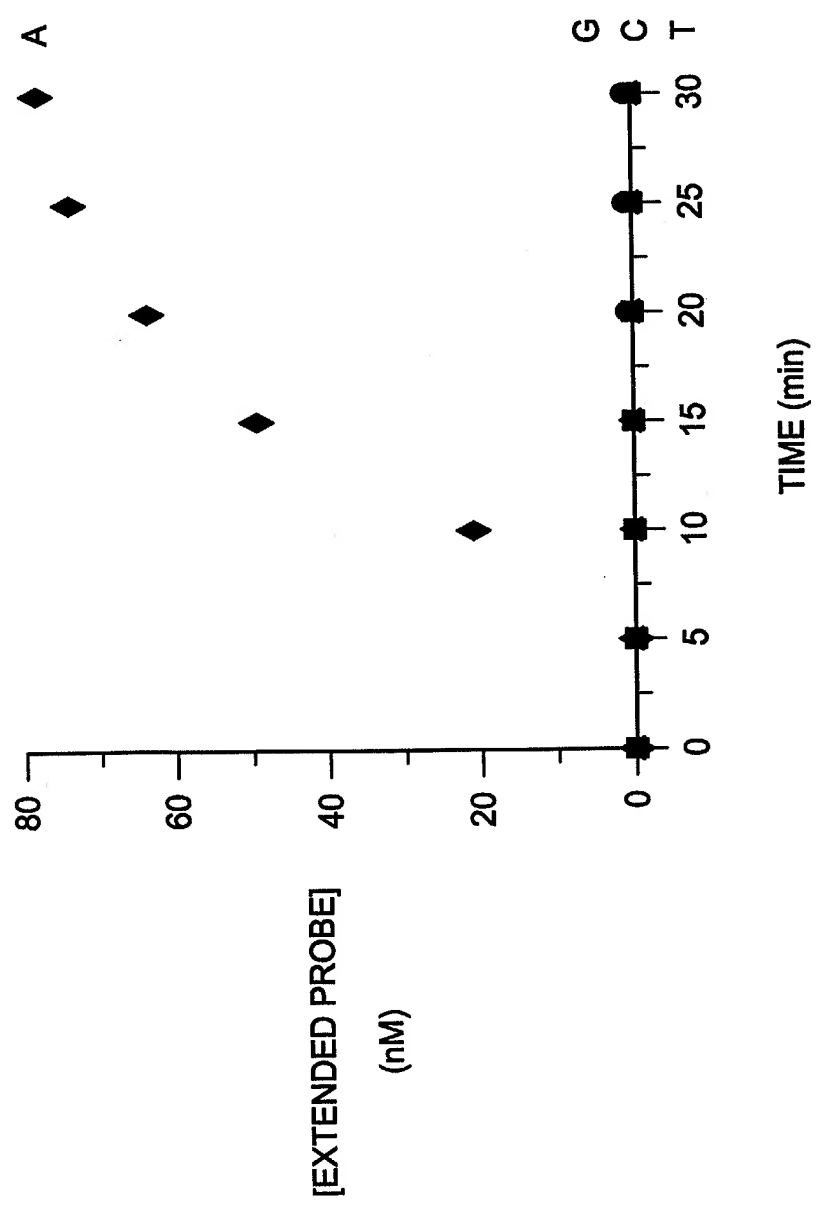


FIG-2E NP-6 DETECTOR PROBE IN SDA WITH 10,000 A, C, G, OR T TARGETS

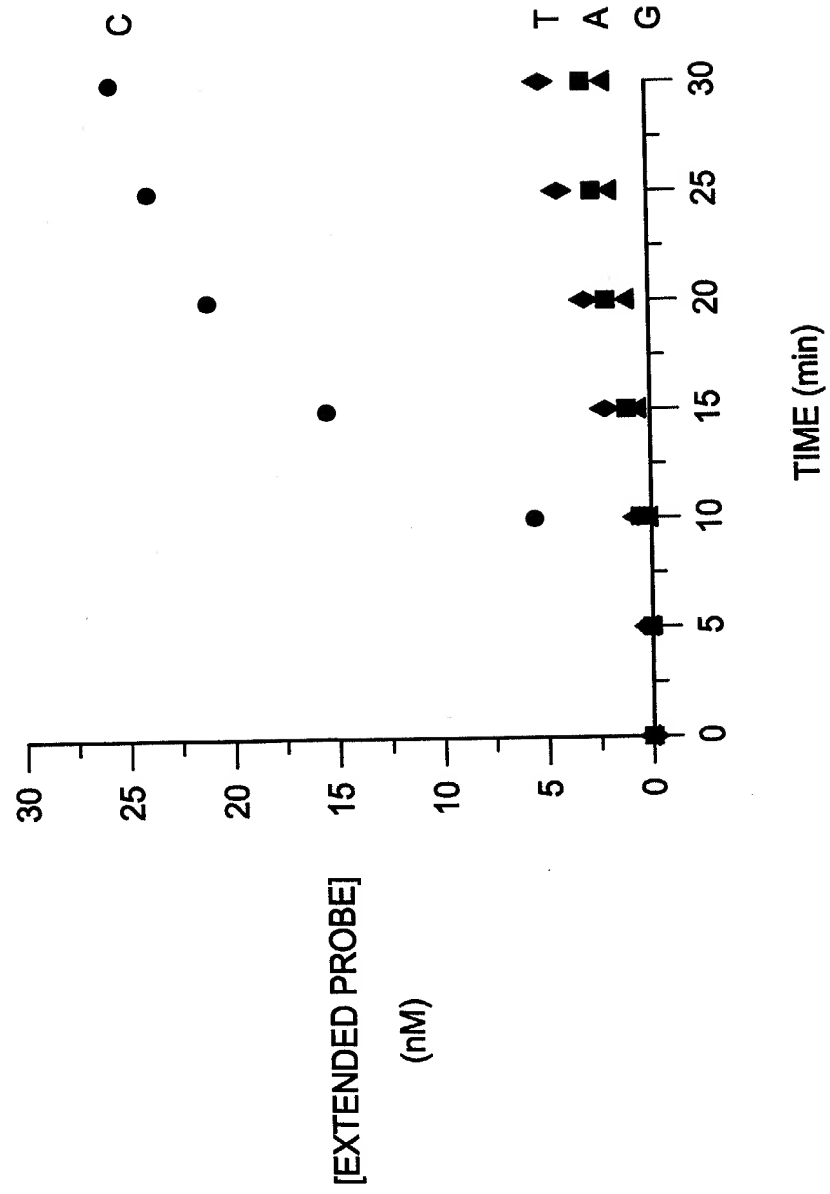
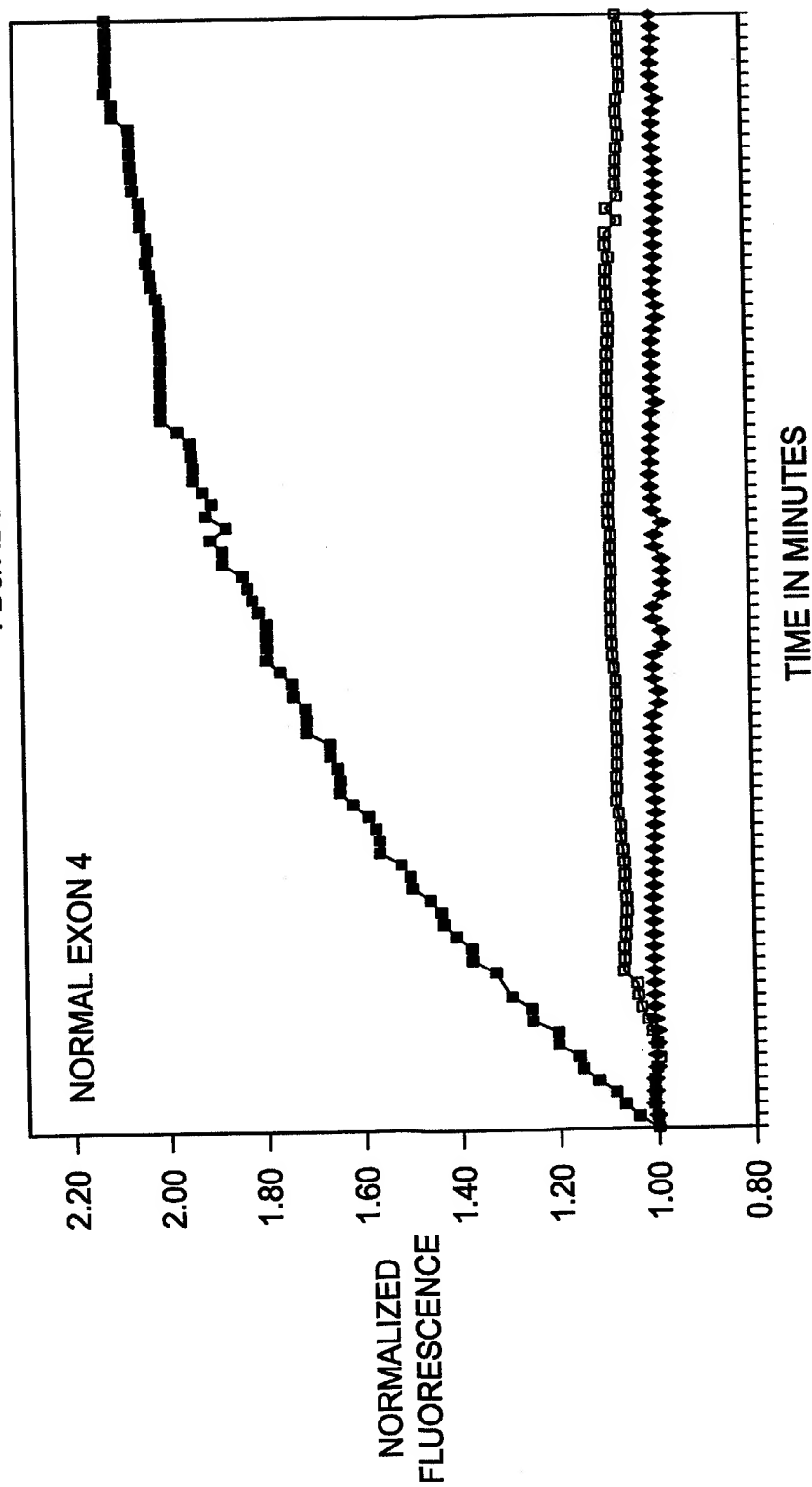


FIG-3A TWO-COLOR ALLELE ANALYSIS ON PROBE TEC

—■— FLUORESCIN EMISSION
 —□— ROX EMISSION
 —♦— ZERO TARGET
 FAM & ROX EMISSION

WT TARGET HEMOCHROMATOSIS EXON 4 (CLONE 1)
FD3/RD8



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FIG-3B TWO-COLOR ALLELE ANALYSIS ON PROBE TEC

- FLUORESCIN EMISSION
- ROX EMISSION
- ZERO TARGET
- FAM & ROX EMISSION

Mu TARGET HEMOCHROMATOSIS EXON 4 (CLONE 1)
FD3/RD8

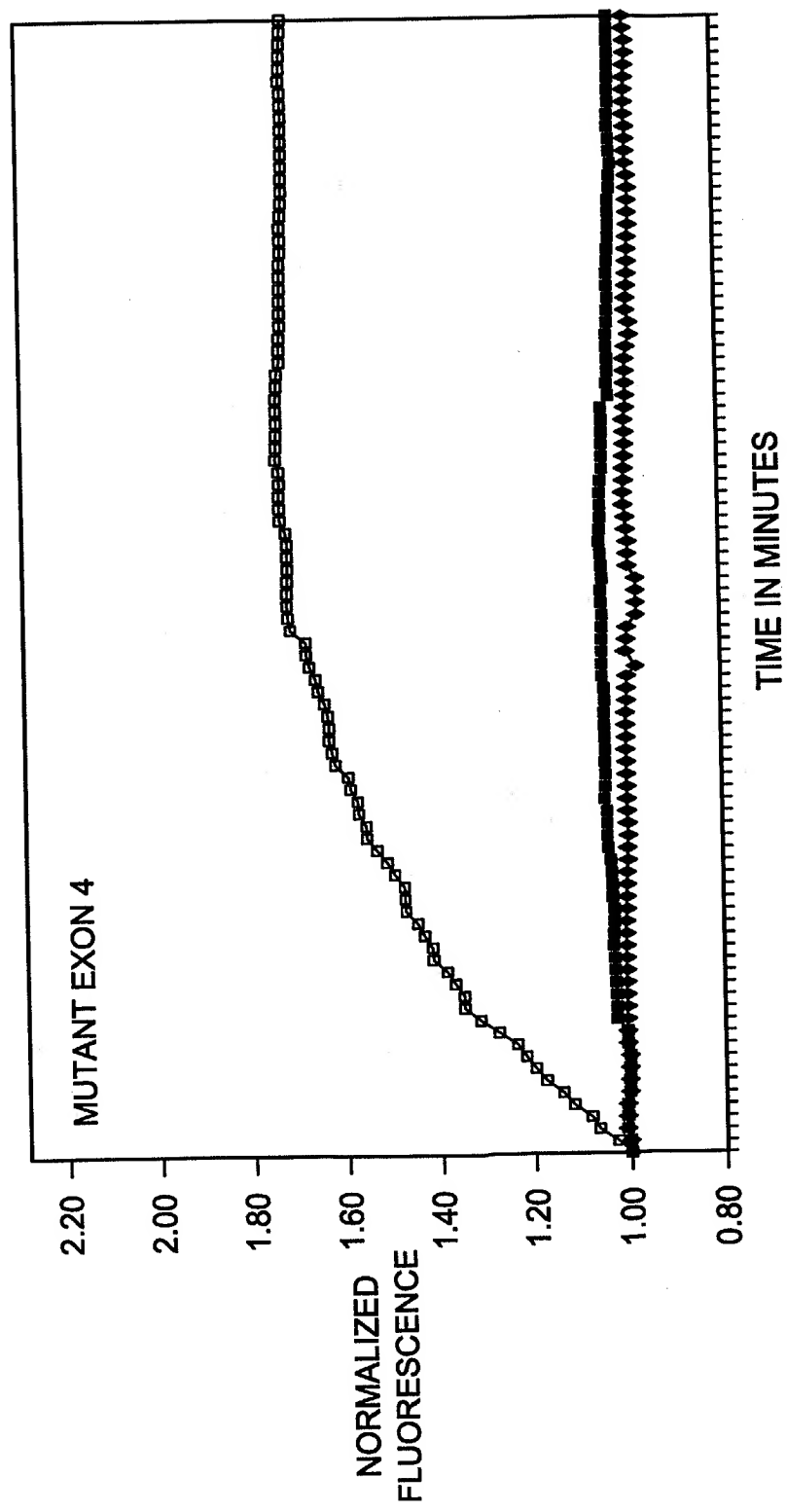
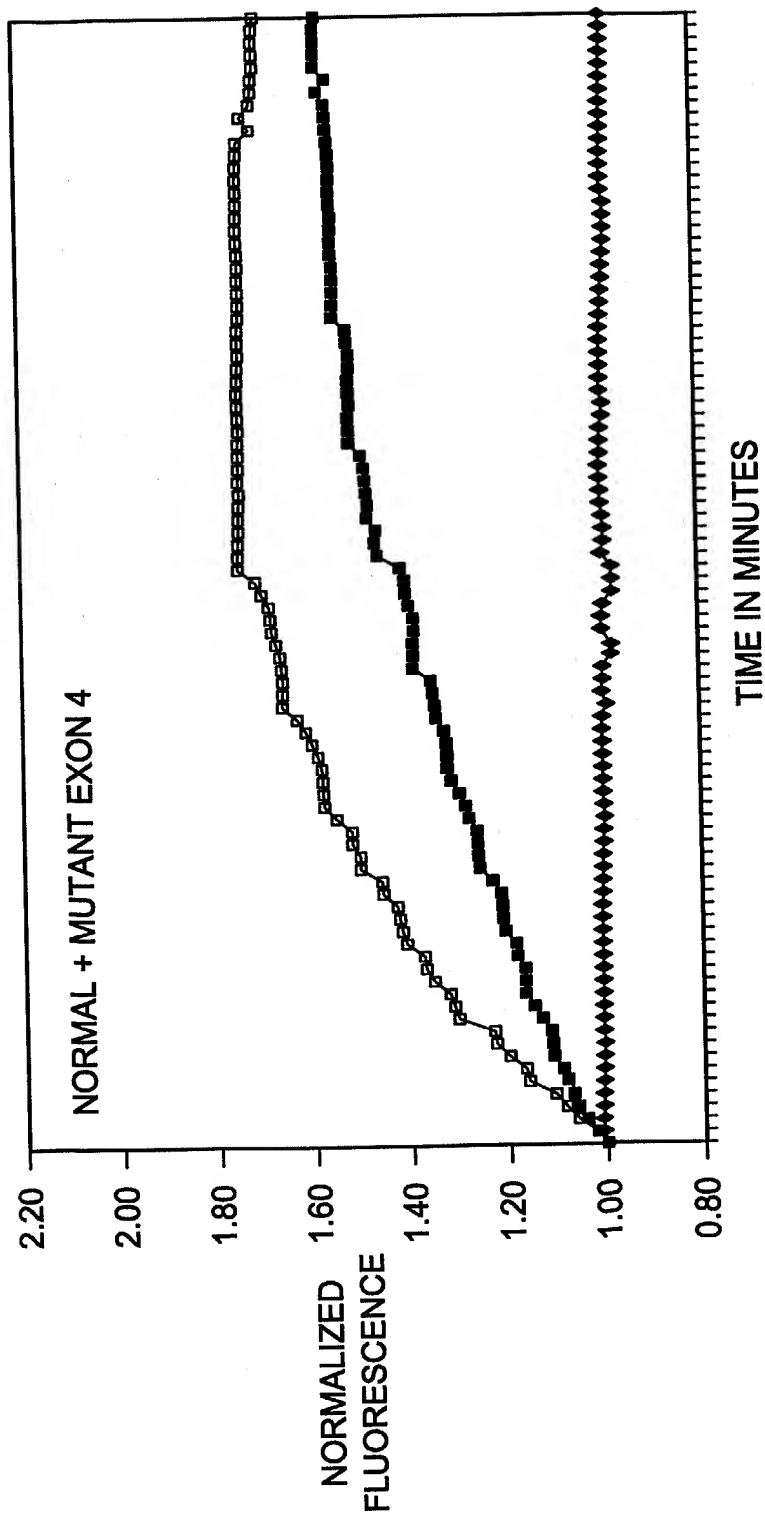


FIG-3C TWO-COLOR ALLELE ANALYSIS ON PROBE TEC

- FLUORESCCEIN EMISSION
- ROX EMISSION
- ◆— ZERO TARGET
- ▲— FAM & ROX EMISSION

HETEROZYGOUS TARGET (Wt / Mu)
 HEMOCHOMATOSIS EXON 4 (CLONE 1)
 FD3/RD8



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FIG-4A TWO-COLOR SNP ANALYSIS ON PROBE TEC

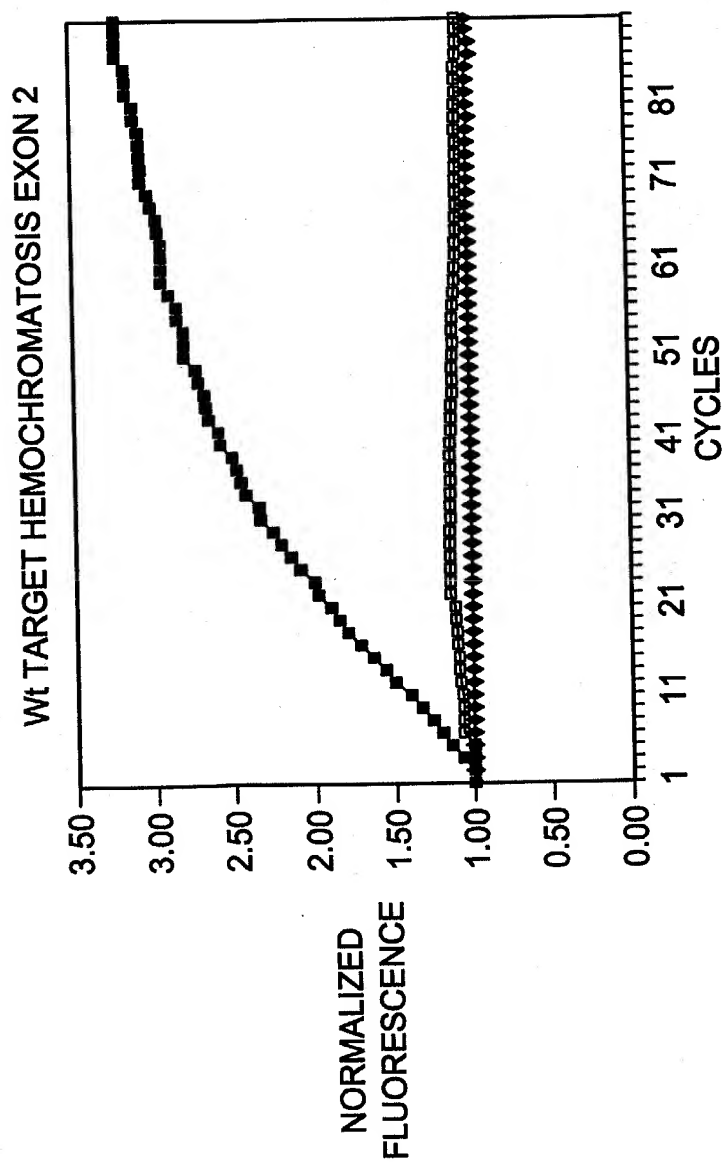
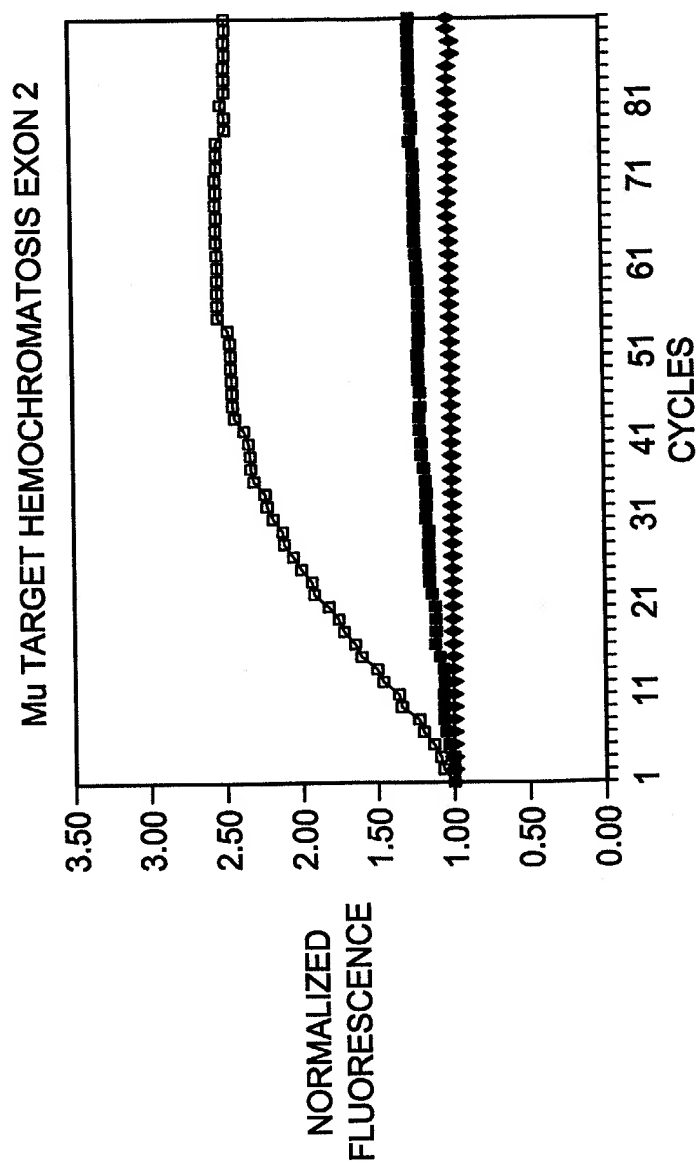
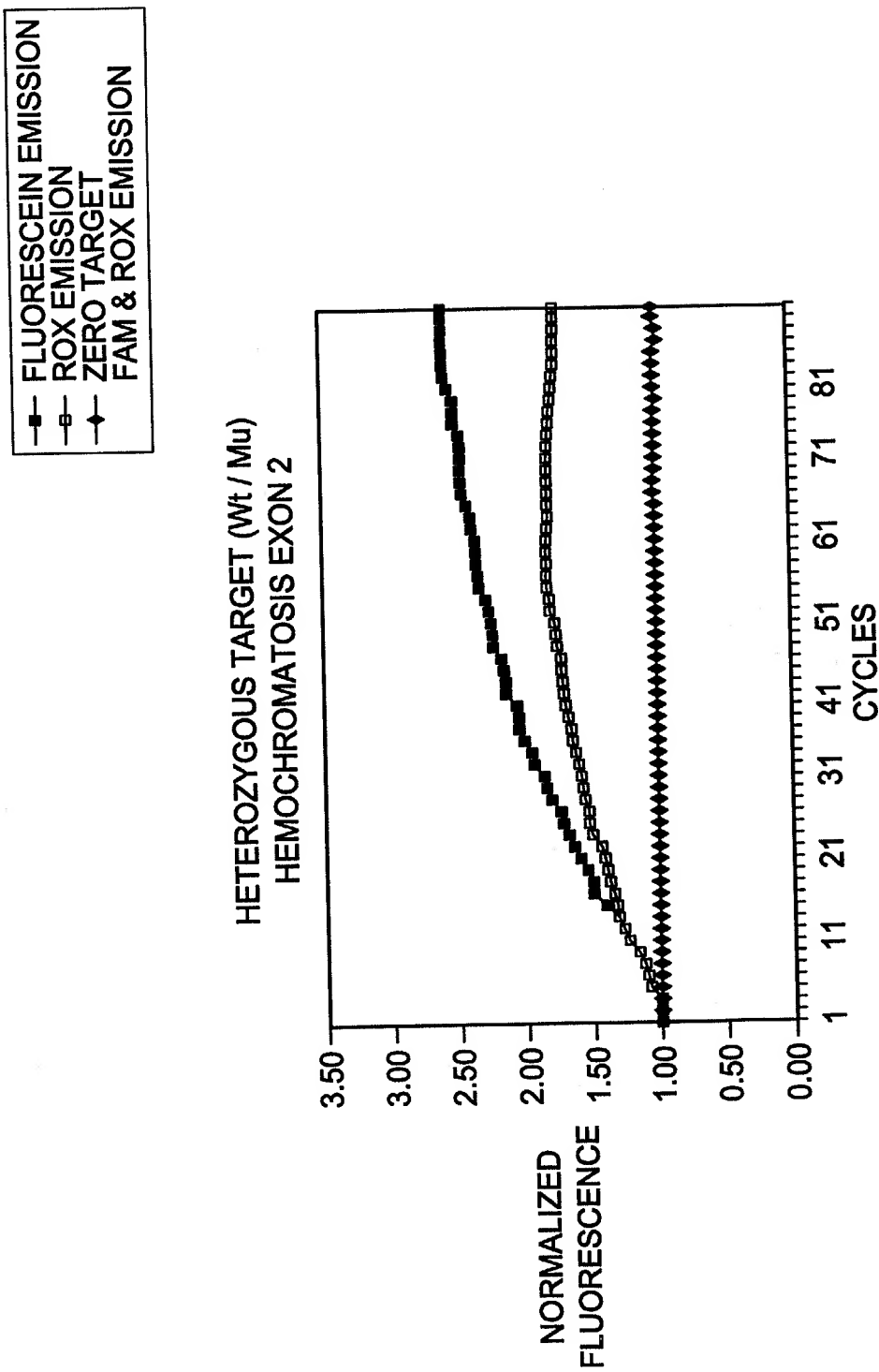


FIG-4B TWO-COLOR SNP ANALYSIS ON PROBE TEC



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FIG-4C TWO-COLOR SNP ANALYSIS ON PROBE TEC



The diagram illustrates the mechanism of Linear SDA (Sequencing by DNA Amplification) for identifying a mutant probe. The process begins with a DNA template (S₁) and a ROX-labeled mutant probe. The probe is extended by a polymerase (R) to form a nickable structure (S₂). This structure is then processed by a linear SDA reaction, which results in three possible outcomes: spurious probe conversion, identical 5' tails on mutant and wild-type probes, or non-identical 5' tails.

SPURIOUS PROBE CONVERSION

IDENTICAL 5' TAILS ON MUTANT AND WILD-TYPE PROBES

NON-IDENTICAL 5' TAILS

[illegible]

FIG-6 SDA HH4 SYSTEM 105 TARGETS, FAM DETECTOR PROBES AT 300 nM

—*	Wt TARGET Rxn3
—◆	Mu TARGET Rxn4
—●	Wt TARGET Rxn1
—■	Mu TARGET Rxn2

